

**Cumulative Contents****Regular Papers**

Chemical synthesis and surface activity of lung surfactant phospholipid analogs. II. Racemic *N*-substituted diether phosphonolipids  
*J.G. Turcotte, W.H. Lin, P.E. Pivarnik, A.M. Sacco, S.S. Shirali, M.M. Bermel, Z. Lu and R.H. Notter (U.S.A.)*

The *cis/trans* isomerization of the double bond of a fatty acid as a strategy for adaptation to changes in ambient temperature in the psychrophilic bacterium, *Vibrio* sp. strain ABE-1  
*H. Okuyama, N. Okajima, S. Sasaki, S. Higashi and N. Murata (Japan)*

Ca<sup>2+</sup>-independent phospholipase A<sub>2</sub> activity associated with secretory granular membranes in rat parotid gland  
*M. Mizuno, Y. Kameyama and Y. Yokota (Japan)*

Small unilamellar liposomes from mixed natural and polymeric phospholipids: stability and susceptibility to phospholipase A<sub>2</sub>  
*D.E. Davies, M. Critchlow, D.W. Grainger, A. Reichert, H. Ringsdorf and J.B. Lloyd (U.K., F.R.G.)*

A two component-type cytochrome *P*-450 monooxygenase system in a prokaryote that catalyzes hydroxylation of ML-236B to pravastatin, a tissue-selective inhibitor of 3-hydroxy-3-methylglutaryl coenzyme A reductase  
*N. Serizawa and T. Matsuoka (Japan)*

Biological effects of 1-acyl-2-acetyl-*sn*-glycero-3-phosphocholine in the human neutrophil  
*M. Triggiani, D.W. Goldman and F.H. Chilton (U.S.A.)*

Involvement of diminution of glutathione, produced by deficiency of methionine in the diet, in the elevation of malic enzyme level in rat liver  
*A. Ayala, E. Gordillo, A. Castaño, M.-F. Lobato and A. Machado (Spain)*

Growth-associated changes in fatty acid compositions of nuclear phospholipids of liver cells  
*H. Ishihara, K. Tamiya-Koizumi, H. Kuriki, S. Yoshida and K. Kojima (Japan)*

1 Hepoxilin A<sub>3</sub> (HxA<sub>3</sub>) is formed by the rat aorta and is metabolized into HxA<sub>3</sub>-C, a glutathione conjugate  
*O. Laneuville, E.J. Corey, R. Couture and C.R. Pace-Asciak (Canada, U.S.A.)* 60

13 Cytidyltransferase translocation onto endoplasmic reticulum and increased de novo synthesis without phosphatidylcholine accumulation in Krebs-II ascite cells  
*F. Tercé, M. Record, H. Tronchère, G. Ribbes and H. Chap (France)* 69

21 Regulation of the phosphoinositide cycle by Na<sup>+</sup>/H<sup>+</sup> exchange and intracellular pH in human platelets  
*G. Luzzatto, M.H. Kroll, G.B. Zavoico and A.I. Schafer (U.S.A.)* 78

29 Metabolism of 3-[<sup>3</sup>H]sphingosine sphingomyelin labeled with [<sup>14</sup>C]palmitic or [<sup>14</sup>C]linoleic acid by Hep G<sub>2</sub> cells and rat liver *in vivo*  
*Y. Stein, K. Oette, Y. Dabach, G. Hollander, M. Ben-Naim and O. Stein (Israel, F.R.G.)* 87

29 SV-40 transformation: effect on GM2 ganglioside in cultured cell lines  
*L.M. Hoffman, S.E. Brooks, M.R. Stein and L. Schneck (U.S.A.)* 94

**Rapid Report**

35 Definition of total biosynthesis pathway of taurolipids in *Tetrahymena* cells  
*K. Kaya and T. Sano (Japan)* 101

**Review**

41 Phospholipid fatty acid remodeling in mammalian cells  
*J.I.S. MacDonald and H. Sprecher (U.S.A.)* 105

**Regular Papers**

48 Feeding rats a diet enriched with saturated fatty acids prevents the inhibitory effects of acute

and chronic ethanol exposure on the in vitro uptake of hexoses and lipids	
<i>A.B.R. Thomson, M. Keelan and M.T. Clandinin (Canada)</i>	122
Increased levels of monohydroxy metabolites of arachidonic acid and linoleic acid in LDL and aorta from atherosclerotic rabbits	
<i>T. Wang and W.S. Powell (Canada)</i>	129
Enhancing effects of bile salts on the degradation of glycosphingolipids by glycosidases from bacteria of the human fecal flora	
<i>P. Falk, L.C. Hoskins and G. Larson (Sweden, U.S.A.)</i>	139
Further studies on the purine phosphoribosyltransferase 'burst' velocity reaction	
<i>C. Montero and P. Llorente (Spain)</i>	149
Phospholipase D-catalyzed hydrolysis of phosphatidylcholine occurs with P–O bond cleavage	
<i>P.G. Holbrook, L.K. Pannell and J.W. Daly (U.S.A.)</i>	155
Regulation of the uptake of high-density lipoprotein-originated cholestry ester by HepG2 cells: role of low-density lipoprotein and plasma lipid transfer protein	
<i>G.A. Francis, K.W.S. Ko, H. Hara and S. Yokoyama (Canada)</i>	159
The catabolism of exogenous lysophosphatidylcholine in isolated perfused rat and guinea pig hearts: a comparative study	
<i>T. Mock and R.Y.K. Man (Canada)</i>	167
The fatty acid composition of placenta in intrauterine growth retardation	
<i>P. Percy, G. Vilbergsson, A. Percy, J.-E. Månsen, M. Wennergren and L. Svennerholm (Sweden)</i>	173
Differential actions of diacyl- and alkylacylglycerols in priming phospholipase A <sub>2</sub> , 5-lipoxygenase and acetyltransferase activation in human neutrophils	
<i>S.A. Bauldry, R.L. Wykle and D.A. Bass (U.S.A.)</i>	178
Inhibition of phosphatidylcholine and phosphatidylethanolamine biosynthesis by cytochalasin B in cultured glioma cells: potential regulation of biosynthesis by Ca <sup>2+</sup> -dependent mechanisms	
<i>T.P. George, H.W. Cook, D.M. Byers, F.B.S.C. Palmer and M.W. Spence (Canada)</i>	185

### BBA Report

Effect of pancreatic phospholipase A <sub>2</sub> and gastric lipase on the action of pancreatic carboxyl ester lipase against lipid substrates in vitro	
<i>M.B. Lindström, J. Persson, L. Thurn and B. Borgström (Sweden)</i>	194

### Rapid Reports

Oxidation of low-density lipoprotein by copper and iron in phosphate buffer	
<i>M. Kuzuya, K. Yamada, T. Hayashi, C. Funaki, M. Naito, K. Asai and F. Kuzuya (Japan)</i>	198
Analysis of non-heme iron in arachidonate 12-lipoxygenase of porcine leukocytes	
<i>S. Matsuda, H. Suzuki, T. Yoshimoto, S. Yamamoto and A. Miyatake (Japan)</i>	202
Reviews	
Lecithin-cholesterol acyltransferase in the metabolism of high-density lipoproteins	
<i>A. Jonas (U.S.A.)</i>	205
Recent investigations into the lipoxygenase pathway of plants	
<i>H.W. Gardner (U.S.A.)</i>	221
Regular Papers	
Kinetic control of steroidogenesis by steroid concentration in guinea pig adrenal microsomes	
<i>A. Higuchi, S. Kominami and S. Takemori (Japan)</i>	240
Effect of indomethacin on the uptake, metabolism and excretion of 3-oxocholic acid: studies in isolated hepatocytes and perfused rat liver	
<i>H. Takikawa, J.C. Fernandez-Checa, J. Kuhlenkamp, A. Stolz, M. Ookhtens and N. Kaplowitz (Japan, U.S.A.)</i>	247
The effect of <i>n</i> –3 fatty acids on osmotic fragility of rat erythrocytes	
<i>T.-A. Høgve, Y. Johansen and B. Christoffersen (Norway)</i>	251
Δ <sup>5</sup> -Desaturation of dihomogammalinolenic acid (20:3( <i>n</i> –6)) into arachidonic acid (20:4( <i>n</i> –6)) by rat liver microsomes and incorporation of fatty acids in microsome phospholipids	
<i>J.P. Blond and J. Bézard (France)</i>	255
UVA-induced lipid peroxidation in cultured human fibroblasts	
<i>P. Morlière, A. Moysan, R. Santus, G. Hüppe, J.-C. Mazière and L. Dubertret (France)</i>	261
Synthesis of phosphatidylinositol in rat liver microsomes is accompanied by the rapid formation of lysophosphatidylinositol	
<i>J.C. Darnell, D.G. Osterman and A.R. Saltiel (U.S.A.)</i>	269
Fatty acid remodelling of phosphatidylinositol under conditions of de novo synthesis in rat liver microsomes	
<i>J.C. Darnell, D.G. Osterman and A.R. Saltiel (U.S.A.)</i>	279

Coenzyme A-dependent, ATP-independent acylation of 2-acyl lysophosphatidylinositol in rat liver microsomes <i>J.C. Darnell and A.R. Saltiel (U.S.A.)</i>	292	Lipid conjugates of antiretroviral agents: release of antiretroviral nucleoside monophosphates by a nucleoside diphosphate diglyceride hydrolase activity from rat liver mitochondria <i>G.M.T. Van Wijk, K.Y. Hostetler and H. Van den Bosch (The Netherlands, U.S.A.)</i>	307
<i>Rapid Reports</i>		<i>Cumulative Contents, Vol. 1084</i>	311
Effect of estrogen and progesterone on the hepatic cholesterol 7 $\alpha$ -hydroxylase activity in ovariectomized baboons <i>R.S. Kushwaha and K.M. Born (U.S.A.)</i>	300	<i>Author Index</i>	314
Lipoxin formation in fish leucocytes <i>A.F. Rowley (U.K.)</i>	303		